

## AMENDMENTS TO THE CLAIMS

Please cancel all claims. Please add the following new claims 103-105.

Claims 1-102 are cancelled.

103. (new) An olefin homopolymer, the polymer having:
- A. a melt flow ratio,  $I_{10}/I_2, \geq 5.63$ ,
  - B. a molecular weight distribution,  $M_w/M_n$ , defined by the equation:
$$M_w/M_n \leq (I_{10}/I_2) - 4.63, \text{ and}$$
  - C. a critical shear stress at onset of gross melt fracture greater than about  $4 \times 10^6$  dyne/cm<sup>2</sup>.
104. (new) An olefin homopolymer, the polymer having:
- A. a melt flow ratio,  $I_{10}/I_2, \geq 5.63$ , and
  - B. a molecular weight distribution,  $M_w/M_n$  of from about 1.5 to about 2.5.
105. (new) An olefin homopolymer, the polymer having:
- A. from about 0.01 to about 3 long chain branches/1000 carbons, and
  - B. a critical shear stress at onset of gross melt fracture of greater than about  $4 \times 10^6$  dyne/cm<sup>2</sup>.